nassetti

EVA

Bedhead Unit

Operating Instructions

CE
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EVA

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1. Instructions For Safe Use

1.1. Introduction

Please note that only staff with the appropriate qualifications may only carry certain works:

- The bedhead unit should only be operated by trained medical staff
- The bedhead unit should be cleaned only by trained cleaning staff

- Prior to the use of the bedhead unit, please read these operating instructions carefully. In this way, you will be able to take full advantage of the bedhead unit's features and protect yourself and others from damage.
- The bedhead unit is only intended for use as described in these operating instructions and should only be used in this way. Use, any other than described here, could pose a danger to the product and other equipment of the operator.
- In case of problems that cannot be adequately dealt with by these instructions for use, please contact your supplier, for your own safety.

These operating instructions refer to the "EVA" bedhead units in general.

The bedhead units may be either wall or ceiling mounted types, with different dimensions according to the requirements of the customer and the conditions of the site of installation.

These operating instructions should be kept, for future reference to safety instructions and important information.

Certain work may only be carried out by appropriately trained / qualified staff:

- The bedhead unit is state of the art technology and is safe in operation. However, it may pose as a source for danger, especially if it is used improperly and not in accordance with its intended use.
- For reasons of safety, no alterations or adaptations should be made without the agreement of Nassetti.
- The staff should be instructed, based on these instructions, in work with relevance to safety and the action, operation and care of the bedhead unit.
- The contents of the operating instructions may be changed at any time without notice.
- For translations into foreign languages, the English version of these instructions is definitive.

Versions:
The models may be equipped with other manufacturers' end appliances. For information on their operation, please refer to the operating instructions of these manufacturers.

1.2. Explanation Of Symbols

The safety symbols listed below have been used in these instructions, in order to draw attention to operating faults critical to safety.

WARNING!
If this is not complied with, severe or even fatal injury is possible.

CAUTION!
If this is not complied with, slight or moderate injury or material damage is possible.

NOTE!
Gives tips for use and useful information.

1.3. General Safety Instructions

Please also comply with the special safety instructions in the following sections.

Intended Use:

- The bedhead unit is individually equipped; depending on the version and equipment, the unit is for:
    - Supplying medical appliances, etc. with high and low voltage electricity, medical gases
    - Carrying and positioning medical appliances, such as flowmeters, vacuum regulators, etc.

- The bedhead unit is suitable for continuous operation
- The carrying capacity of the ceiling mounted type bedhead unit accessories rail, indicated on the rail must not be exceeded.

Operating Conditions:

- Ambient temperature: 10°C to 40°C
- Relative humidity: 30 to 75%
- Atmospheric pressure: 700-1060hPa
- The unit is not suitable for operation in areas under the danger of any explosions.

Transport and Storage:

- Following that period, the values of operating conditions apply. Store only in closed or roofed rooms. Do not subject the unit to severe vibration.
- Ambient temperature: 10°C to 40°C
- Relative humidity: 30 to 75%
- Atmospheric pressure: 700-1060hPa

The product of open circuit voltage and short circuit flux must not exceed 6 VA. If this value is exceeded, there is a risk of fire due to spark formation. If this is exceeded, the equipment must be fitted with a gas - tight cover in accordance with EN ISO 11197.

Acceptance:
The installer and / or customer, should make the medical gas system installations according to EN 737-3 standard, and test according to the same standard.

Operating:

The total allowed carrying capacity of the ceiling mounted type bedhead unit is marked on every EVA bedhead unit. Exceeding this value impairs the safety of the bedhead unit. Danger to human life cannot be ruled out here. The accessories rail may only be loaded according to the carrying capacity of 25kg.

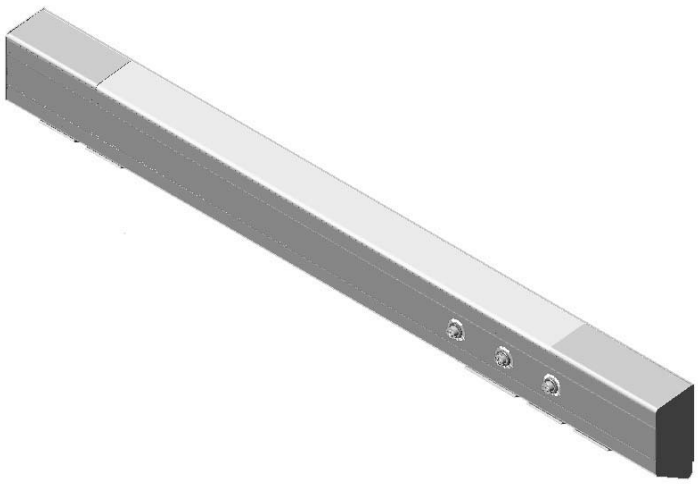
Disposal:
Legal specifications may contain special regulations for the disposal of this product. To avoid damage to the environment and to people, please contact us when you finally take the product out of service with the intention of disposing of it.

2. Types

The bedhead unit is composed of aluminum profiles. The trunk profile, containing three separate compartments, upon installation on the wall over the head of the bed is completed with upper cap, lower cap, and front cap aluminum profiles. In the upper and lower compartments, in addition to the electrical installations, lighting equipment is located. The parts of the upper and lower caps where the lighting fixtures are located are made of extruded, clear, acrylic material.

2.1. Wall Mounting Type

Fig. 1:

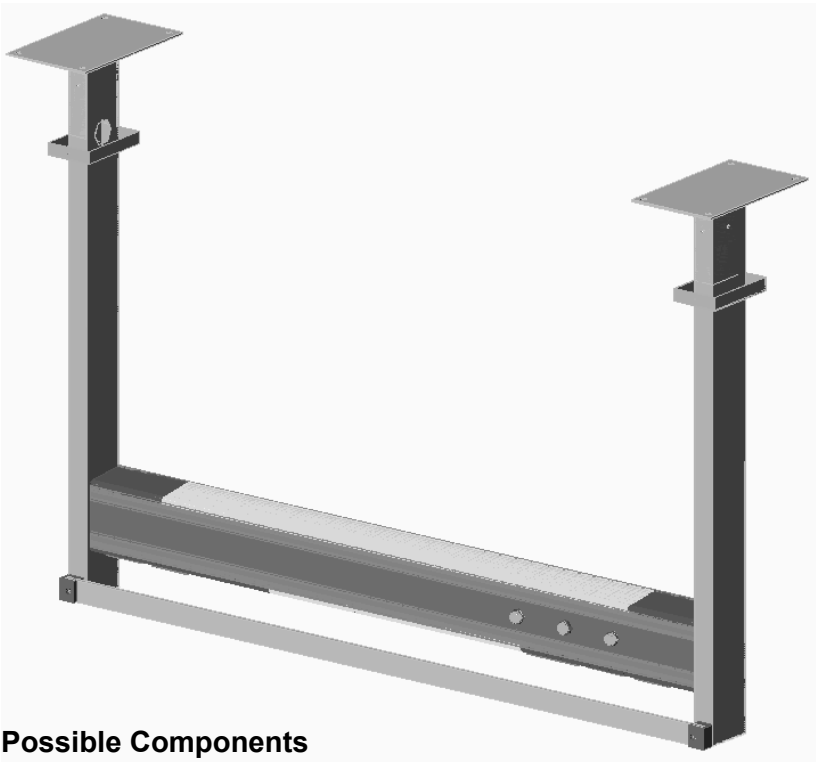


Unless otherwise stated (depending on the requirements of the hospital or the architectural design), wall mounted units normally are manufactured as 1800mm in length for one patient, 3600mm for two patients and 5400mm for three patients.

2.2. Ceiling Mounting Type

Ceiling mounted type units, which are fixed to the ceiling by two carrying columns, are designed as single bed units and completed with an accessories holder rail, so that system rigidity can be enhanced.

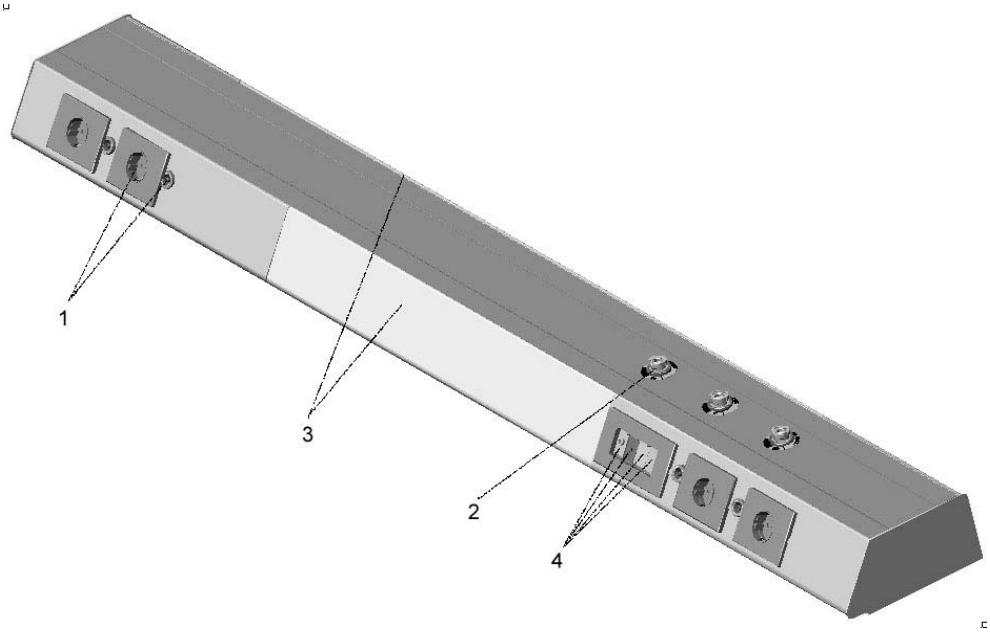
Fig. 2:



3. Possible Components

3.1. Possible Components For Installation On Bedhead Unit

Fig. 3:



1- Power supply (mounted on lower cap)
   - Electrical sockets (with emergency power supply)
   - Equi-potential pins (earthing)

2- Gas supply (mounted on front cap)
   - Oxygen
   - Vacuum
   - Compressed air 4 bar

3- Lighting
   - General (indirect) illumination lamp, (1 or 2 x 36 W fluorescent), mounted on upper cap
   - Reading (Direct illumination) and / or visit lamps (18 W fluorescent), mounted on lower cap
   - Switches for the above lamps (according to the requirements of end-user)

4- Provision for:
   - Connection to monitoring equipment (e.g. patient monitors)
   - Connection to communication equipment (e.g. telephone, nurse call)
   - Connection to computer systems

4. Operating The Bedhead Unit

4.1. Power Supply

The electrical sockets on the bedhead unit can be wired to separate circuits. The different circuits can be identified from the color coding on the electrical socket frame.

Fig. 4:

There can be up to six sockets to one circuit. If one circuit fails, the other circuits remain in operation and power supply is maintained by plugging into a different socket.

1- Check the electrical socket frame to identify the circuit from the color coding.
2- Plug the mains plug of the end appliance into the bedhead unit socket.
3- Where necessary, earth the end appliance at the equi-potential pin and check for secure seating of the connection.

Do not pull the mains plug out of the bedhead unit socket (1) by pulling on the lead, but hold the socket and pull the plug out.

4.2. Gas Supply

The medical gas outlets are marked at the bedhead unit to avoid misidentification.

Fig. 5:

1- Make the connection in the appropriate supply box at the bedhead unit by pressing in and locking.
2- Check for secure seating and locking.
3- Unlock the connection by pressing in the pressure ring / release head / bayonet fitting (depending on type of the installed medical gas outlets) and pull out.

To avoid any problems in the connection of medical gas accessories with bottles, such flowmeters and aspirators, due to the integrated accessories rail, if available, of the bedhead unit, make sure to use accessories rail mounting type accessories, instead of direct outlet connection type.

5. Cleaning and Disinfection

To avoid any damage to the bedhead units, do not use any scouring agent, or any cleaning agent, which is alkaline, acidic or contains alcohol (e. g. ethanol, propanol, etc.) or aldehyde.

For cleaning, use a soft, lint-free cloth

The EVA bedhead unit is sealed against penetration of dirt. Therefore, there is no need to open the covers and clean the inside of the bedhead unit. The inside of the bedhead unit may only be cleaned by customer services authorized by Nassetti, since this may damage the unit.

6. Tests and Servicing

The trunk profile of the bedhead unit contains three separate compartments, completed with upper cap, lower cap, and front cap aluminum profiles. The front cap covers the middle compartment reserved for the medical gas installation, while the lower and upper caps cover the lower and upper compartments that are reserved for strong and weak current electrical installations. In the upper and lower compartments, in addition to the electrical installations, lighting equipment may be located. The parts of the upper and lower caps where the lighting fixtures are located are made of extruded, clear, acrylic material. All of the above mentioned caps provide maximum ease for maintenance and repair purposes and make it possible to reach any point within the compartments very easily.

6.1. Servicing / Tests Through The Service

Safety, reliability and performance of the bedhead units are provided only if original Nassetti parts or parts classified as suitable by Nassetti are used for servicing, repair and alterations and as accessories.

All EVA bedhead units should be checked / serviced by Nassetti or an authorized customer service engineer once a year for the following points:

Gas Tests:

- The gas connections must be checked once a year:
  - Connections and marking as described in EN 737-1 and EN 737-3

Electrical Tests:

- The electrical connections and leads should be checked every year in accordance with TS 4535:1998 (EN 60601-1:1990 + A1:1993 + A2:1995 + A12:1995 + A13:1996)

Mechanical and Electrical Safety:

- The service department concerned is informed and trained by Nassetti about the content of the test.

Nassetti shall not be liable for damages and injuries occurring as a result of inspections, repairs, alterations or any work carried out by unauthorized service personnel.

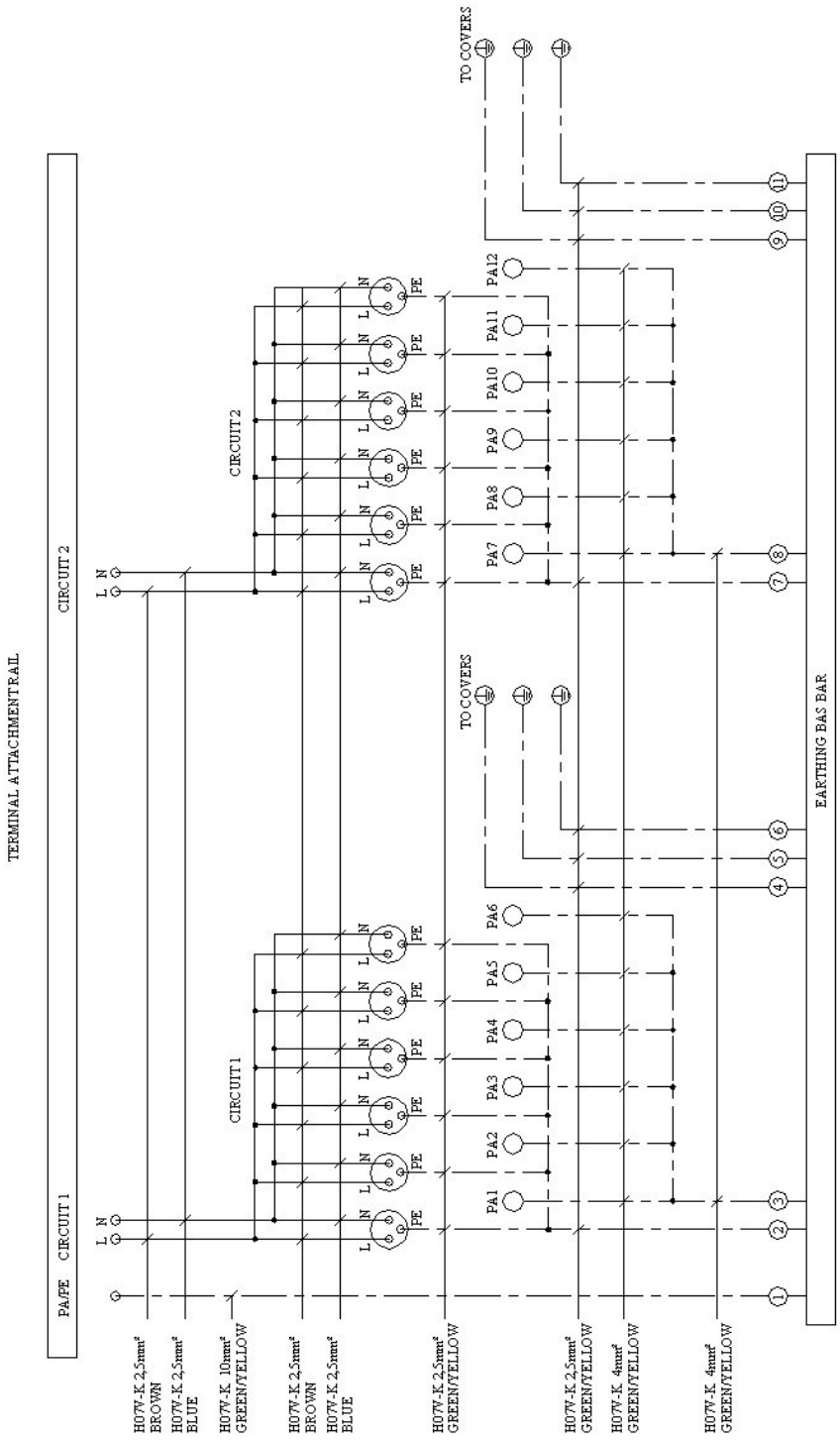
7. Trouble-Shooting

Problem	Possible cause	Solution
Medical gas connections		
Outlets not functioning / no gas supply	• Problem with the medical gas system supply	• Inform service department
Medical gas alarm goes off	• Leakage in medical gas system network	• Inform service department
Moisture in gas lead	• Leakage in medical gas system network	• Inform service department
Electrical Services		
No energy at electrical sockets	• Problem with the high-voltage electrical supply system network	• Inform service department
Lighting		
Indirect light is off	• Problem with the electrical system	• Inform service department
Reading light is off	• Problem with the electrical system	• Inform service department
Visiting light is off	• Problem with the electrical system	• Inform service department

8. Technical Data

Electrical Data	
Mains Voltage	110/220V
Mains Frequency	50 / 60 Hz
Nominal Current	Max. 16 A Per Circuit
Maximum Number Of Circuits	Max. 2 Circuits Of 6 Sockets Each (Per Unit)
Maximum Number Of Electrical Sockets	12 Each (Per Bedhead Unit)
Maximum Number Of Equi-Potential Pins	12 Each (Per Bedhead Unit)
Mechanical Data* (Carrying Capacity)	
Accessories Rail For Ceiling Mounted Type Bedhead Unit	Max. 25 kg
Technical Data For Gases	
Compressed Gases	4 bar
Vacuum	-1bar
Gas Types: Oxygen, Vacuum, Compressed Air	
Flow Properties and Pressure Drop Characteristics	
Compressed Gases	40 L/Min ΔP<10%
Vacuum	25 L/Min ΔP<20%
Classification As In EC Guidelines Medical Products Of 14th June 1993: 93/42/EEC, Annex II	
Protection Class: 1	
Type Of Protection: Covered Construction (IP 21) Ordinary Appliance (Closed Appliance Without Protection Against Water Penetration)	
The bedhead unit is not intended for use in regions endangered by explosion	
The bedhead unit is designed for continuous operation	
Council Guidelines: Class IIb	
Basic Regulations	
EN 737-1:1998, EN 737-3:1998	
EN 60601-1:1990 + A1:1993 + A2:1995 + A12:1995 + A13:1996	
EN 60598-1:1997	
EN ISO 11197:2004	

9. Typical Electrical Wiring Diagram



10. Spare Parts List

Code	Description
HBU.D0048	EVA Acrylic Cover-1310mm, T1
HBU.D0052	EVA Acrylic Cover-710mm, T1
ELK.F0423	Electrical Socket Outlet-“10000”
ELK.F0425	Electrical Socket Outlet-“Armada”

EVA

Bedhead Unit

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